Fig. 1a

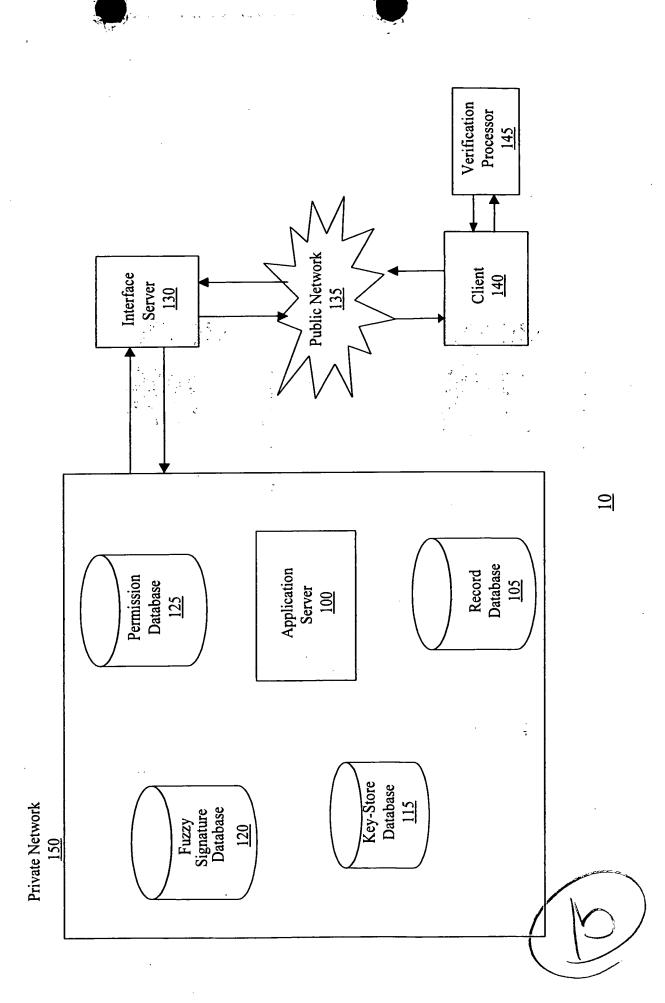


Fig. 1b

Keys Used for Authenticating the Interface Server

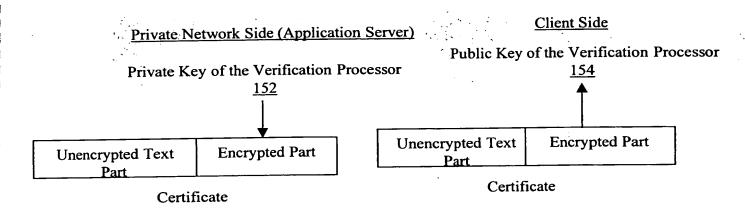
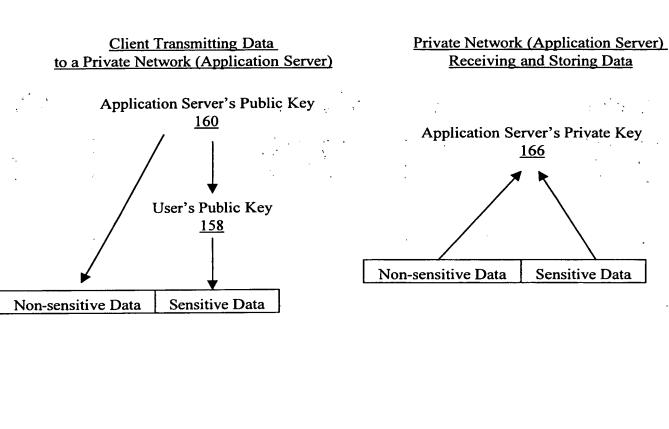
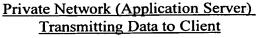
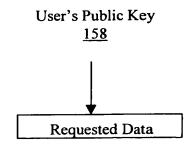


Fig. 1c

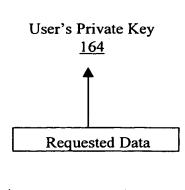
Keys Used in Transmitting, Receiving, and Storing Data







Client Receiving Data



Key: = Encryption = Decryption

Fig. 1d

Keys Utilized in Fuzzy Searching

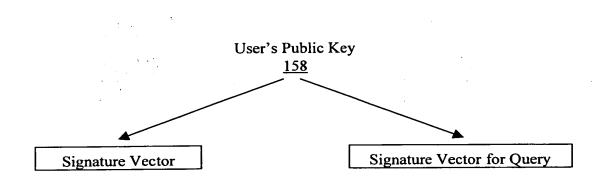
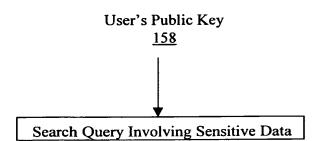


Fig. 1e main and a second seco

Keys Utilized in Relational Database Searching



រូបិប្រជាពល់ ក្រុមប្រជាពល់

Fig. 1f

Keys Utilized in Accessing Sensitive Data

Second User's Private Key in Key-Store Database

Second User's Private Key

164

Sensitive Data

Fig. 1h

Steps for Communications between a Client and a Private Network

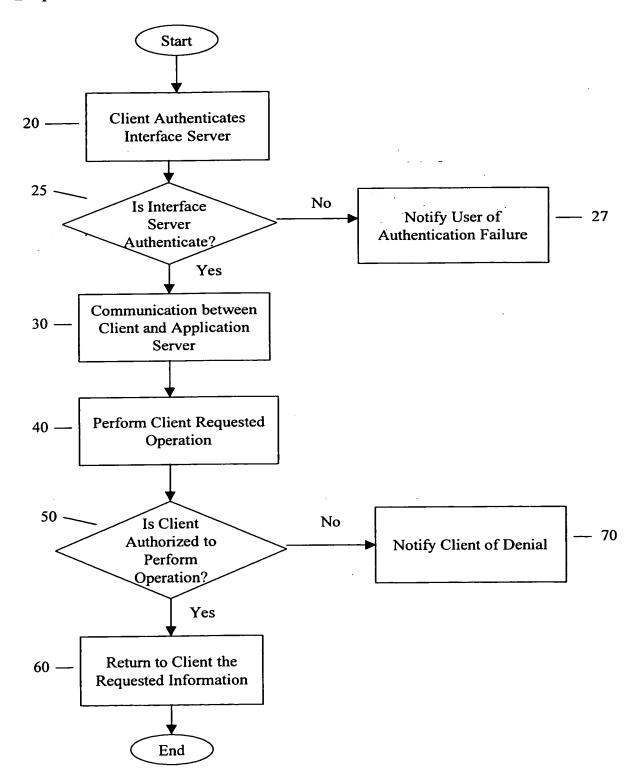
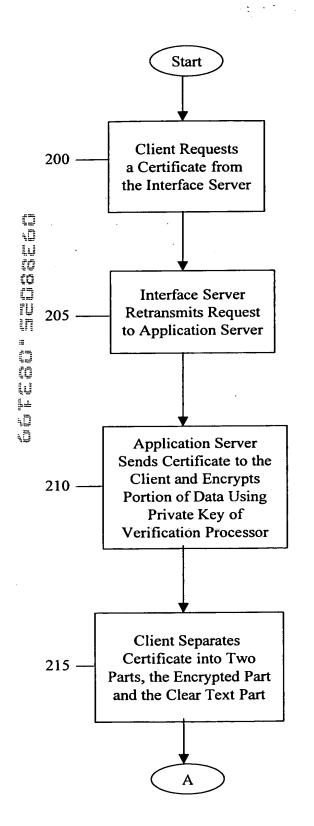


Fig. 2

Authentication



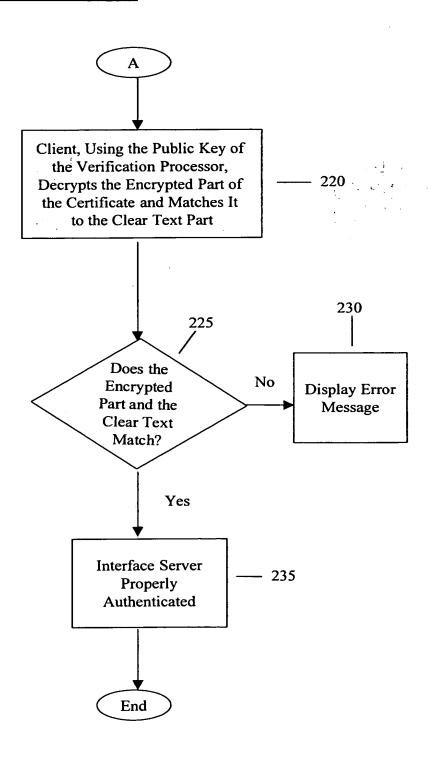


Fig. 3

Transmission and Storage of Data

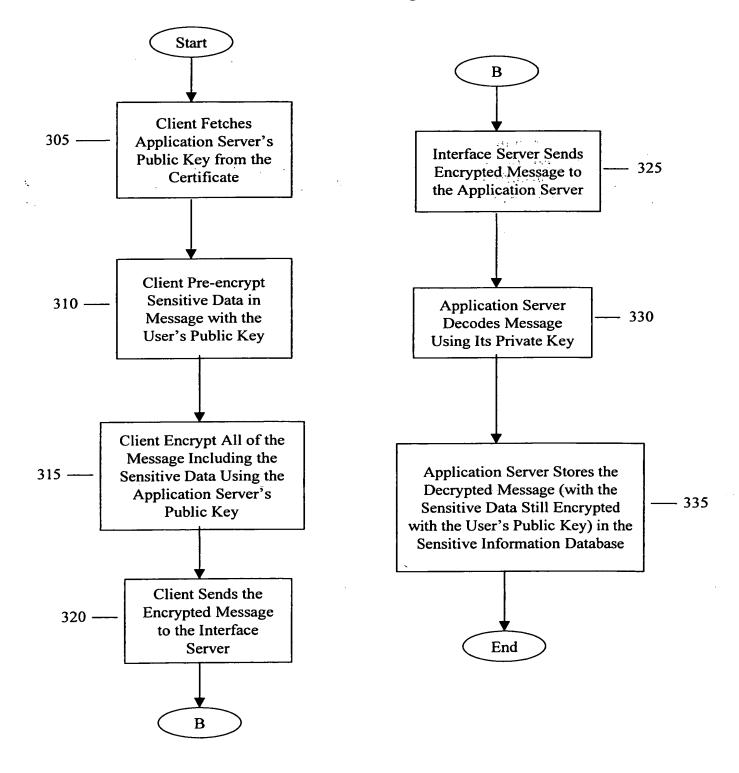


Fig. 4

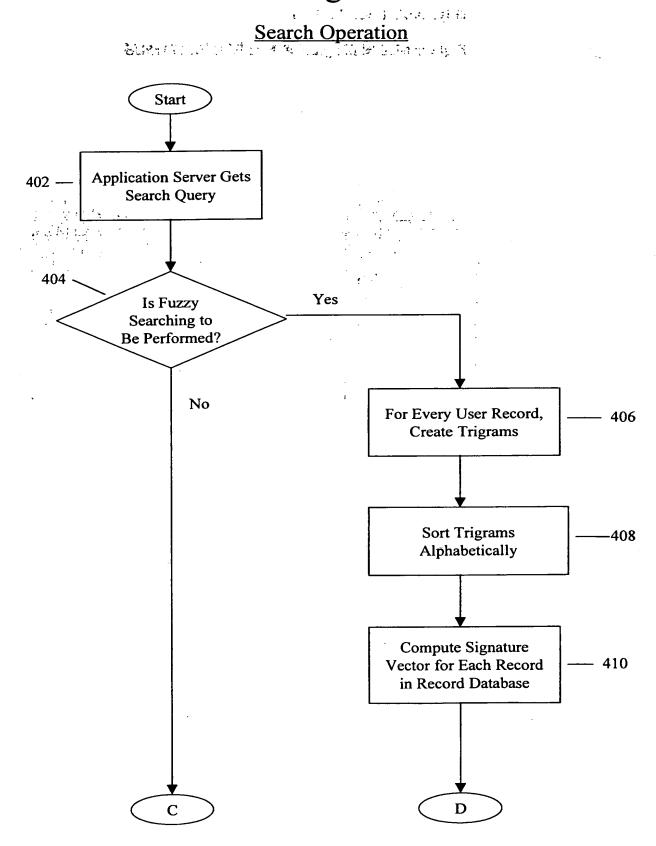


Fig. 4

Search Operation

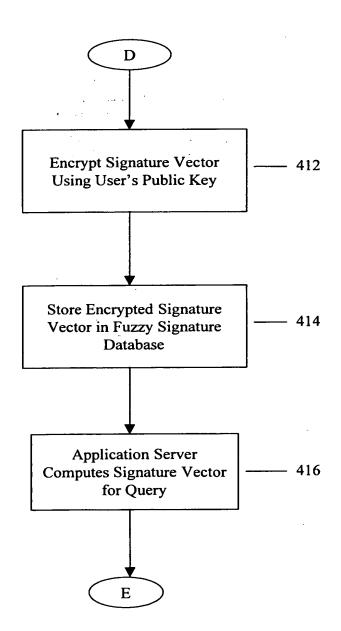


Fig. 4

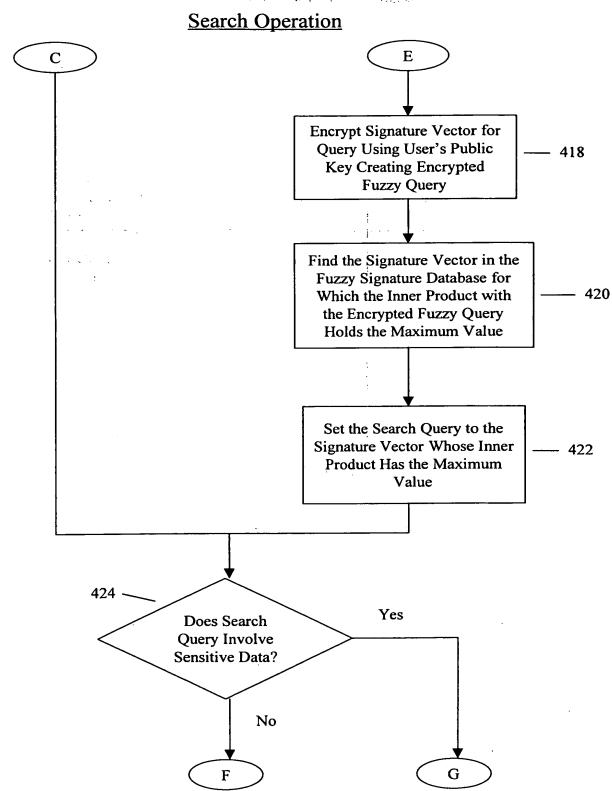


Fig. 4

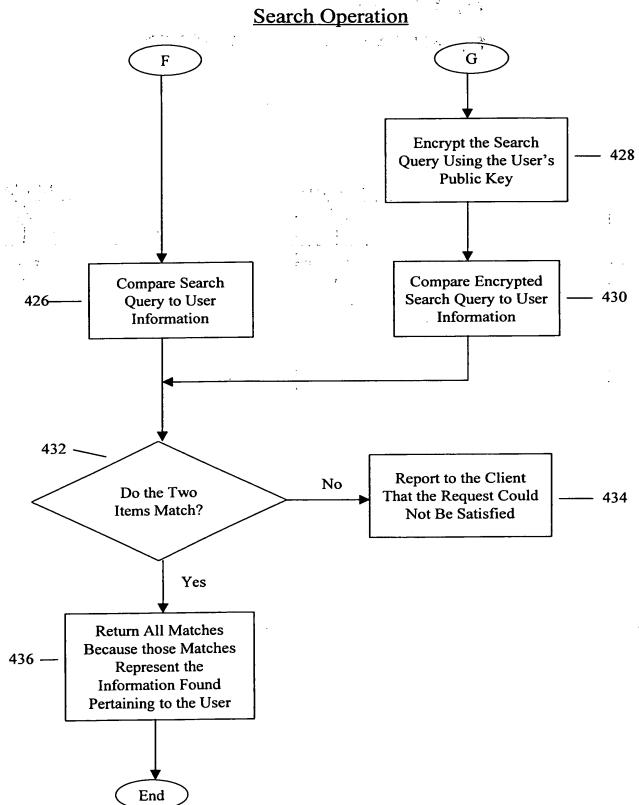


Fig. 5

Accessing Sensitive Data

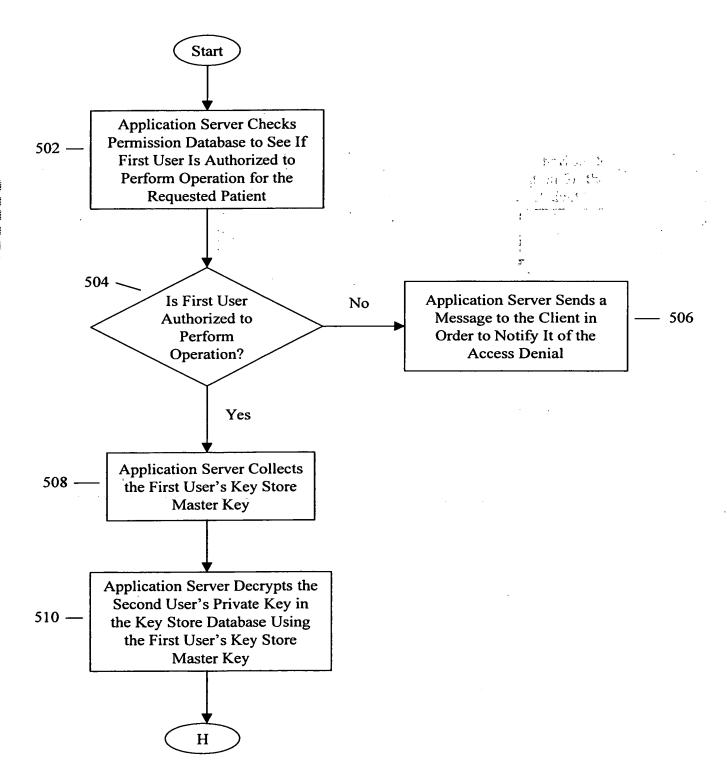


Fig. 5

Accessing Sensitive Data (Cont.)

